

Optical Recognition Of Electrical Circuit Drawings

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**Communications, Computers and Signal Processing, 1997. '10 Years PACRIM
1987-1997 - Networking the Pacific Rim'. 1997 IEEE Pacific Rim
conference;Publication Date: 20-22 Aug 1997;Vol: 2,On page(s): 843-846
vol.2;ISBN: 0-7803-3905-3**

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Summary

This paper presents an optical recognition system for electrical circuits drawing. The system uses computer vision techniques to analyze the circuit's drawing and produces a circuit description program suitable for analysis by circuit analysis programs such as SPICE. The algorithm proposed uses a variety of machine vision techniques to locate the circuit nodes and isolate the circuit components. Moments' invariant descriptors are then used to for the recognition of both elements and values

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